Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: http://www.renesas.com

April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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FS70UMJ-2

High-Speed Switching Use Nch Power MOS FET

REJ03G1435-0200

(Previous: MEJ02G0072-0101)

Rev.2.00 Aug 07, 2006

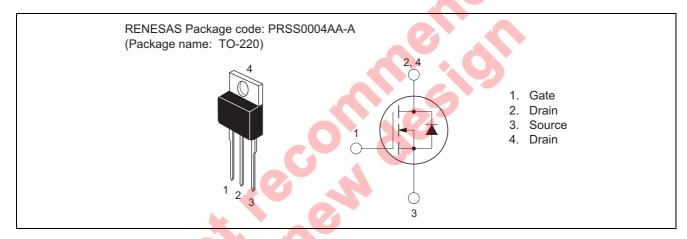
Features

• Drive voltage : 4 V • V_{DSS} : 100 V • $r_{DS(ON) \, (max)}$: 17 m Ω

• I_D: 70 A

• Integrated Fast Recovery Diode (TYP.): 115 ns

Outline



Applications

Motor control, Lamp control, Solenoid control, DC-DC converters, etc.

Maximum Ratings

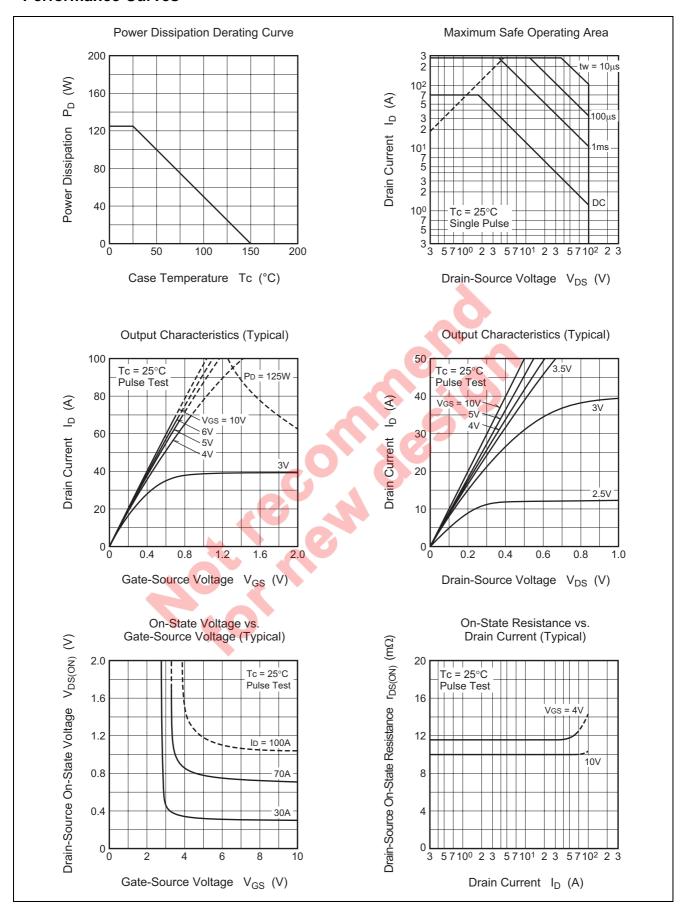
 $(Tc = 25^{\circ}C)$

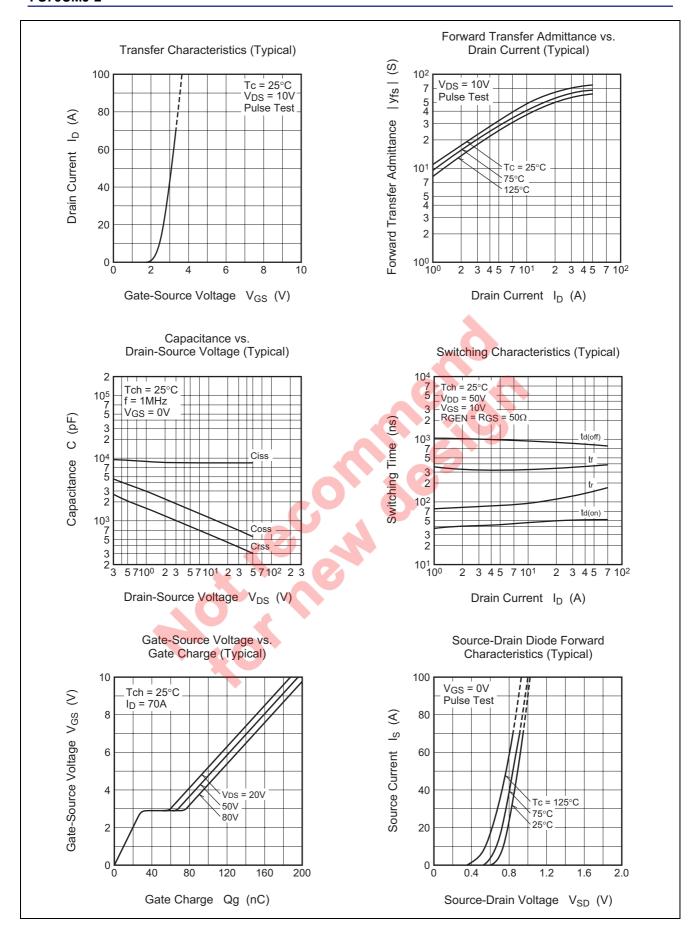
Parameter	Symbol	Ratings	Unit	Conditions
Drain-source voltage	V_{DSS}	100	V	V _{GS} = 0 V
Gate-source voltage	V_{GSS}	±20	V	$V_{DS} = 0 V$
Drain current	I _D	70	Α	
Drain current (Pulsed)	I _{DM}	280	Α	
Avalanche drain current (Pulsed)	I _{DA}	70	Α	L = 100 μH
Source current	Is	70	Α	
Source current (Pulsed)	I _{SM}	280	Α	
Maximum power dissipation	P_D	125	W	
Channel temperature	Tch	- 55 to +150	°C	
Storage temperature	Tstg	- 55 to +150	°C	
Mass	_	2.0	g	Typical value

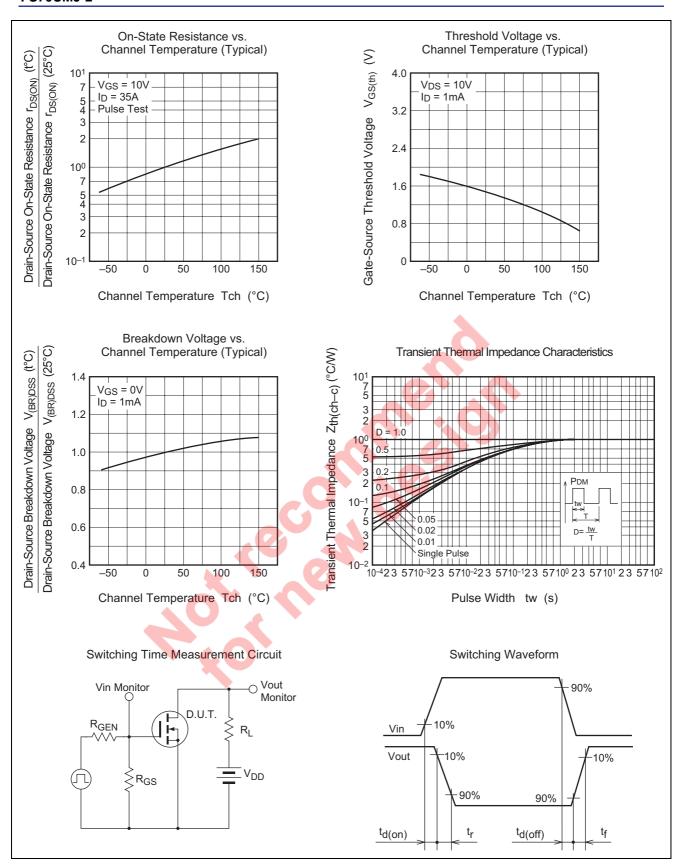
Electrical Characteristics

 $(Tch = 25^{\circ}C)$

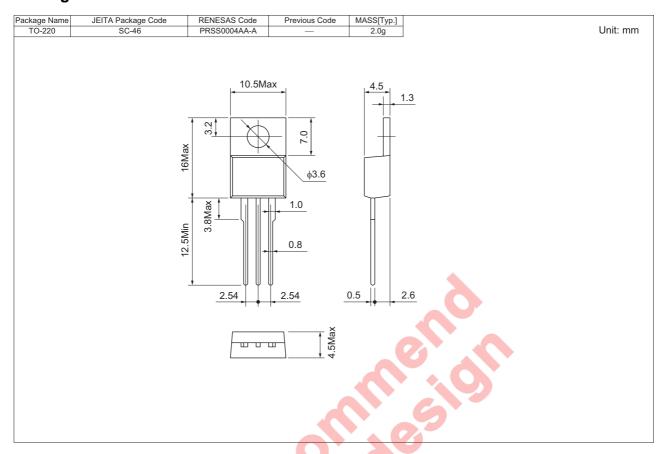
Performance Curves







Package Dimensions



Order Code

Lead form	Lead form Standard packing		Standard order code	Standard order code example
Straight type	Static electricity prevention bag	100	Type name	FS70UMJ-2
Lead form	Plastic Magazine (Tube)	50	Type name – Lead forming code	FS70UMJ-2-A8

Note: Please confirm the specification about the shipping in detail.

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